## ABSTRACT OF THE DISCLOSURE

Disclosed herein are system(s), method(s), and for simultaneously displaying multiple video apparatus The video streams are encoded as a video streams. sequence, which can include temporally coded bi-directional pictures. A decoder decodes a picture from each of the video sequences, which can include temporally coded bidirectional pictures. The set of frame buffers stores the past prediction frames and the future prediction frames for each video sequence. A table indicates the location of the past prediction frame and the future prediction frame for each video sequence. A display engine prepares a frame from each video sequence for display. The location of the frames for display are indicated by a register.